

CHP-20M1G-5249-S is a complete solid state microwave power amplifier module that features high efficiency, high output power and wide dynamic range. It is based on advanced microwave device technology and provides long-term reliability and high ruggedness.

Features:

- 20-1000 MHz ultra-broadband
- Psat: 80W Min
- Fast-switching Shutdown function
- Built-in protection circuits

Electrical Specifications:

- Frequency: 20-1000 MHz
- Power Gain: 52 dB Typ, 49 dB Min
- Gain Flatness: ±1.5 dB Max
- Gain Adjustment Range: 30 dB Typ, 25 dB Min
- Output Psat: +49 dBm Min
- Output P1dB: +47 dBm Min
- Harmonics: -20 dBc Min
- Non Harmonics Spurious: -60 dBc Typ
- Input Power: +10 dBm Max
- Input Return Loss: 10 dB Min
- Output Return Loss: 10 dB Typ
- DC Voltage: +26 to 30 V Typ
- DC Supply Current: 6.2 A Typ
- Switching Time : 2 µs Typ

Environmental Ratings:


- Temperature: -20°C to +65 °C Operating
-40 °C to +70 °C Non-Operating
- Vibration: MIL-STD-202F, Method 204D Cond. B
- Altitude: MIL-STD-202F, Method 105C Cond. B
- Temperature Cycle: MIL-STD-202F, Method 107D Cond. A

Mechanical Specifications:

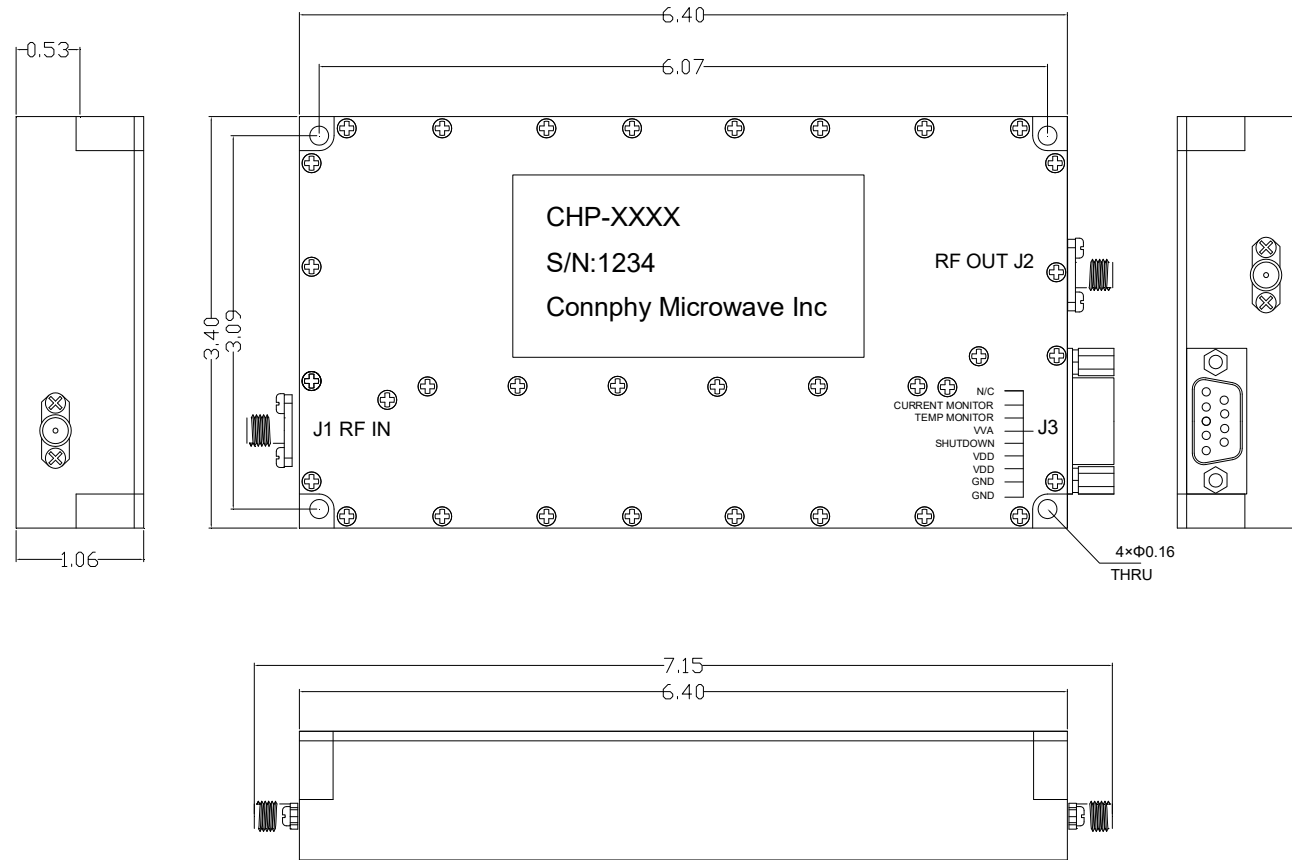
Parameter	Specification
Dimensions WxHxD	160 × 90 × 28mm
RF Connectors In/Out	SMA-F
DC Connector	9 Pin D-Sub
Cooling	External Heatsink

DC Connector PIN Assignment:

Pin	Function	Pin Definition
1	NC	NC
2	Current Monitor	50mV/100mA
3	Temp Monitor	10mV/°C
4	VVA	Control voltage range, 0-5VDC
5	Shutdown	Disable: TTL "High"
6,7	VDD	+26-30 V DC
8,9	GND	GND

SOLID STATE HIGH POWER AMPLIFIER CHP-20M1G-5249-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 14/05/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Mechanical Outline (Inches):




Environmental Ratings:

Temperature:	-20°C to +65 °C Operating -40 °C to +70 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

SOLID STATE HIGH POWER AMPLIFIER

CHP-20M1G-5249-S

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.